

1 **ABSTRACT**

2 A file that has been encrypted using a symmetric key and that has a
3 corresponding access control entry with the symmetric key encrypted using the
4 public key of a public/private key pair can be accessed. An encrypted key cache is
5 also accessed to determine whether an access control entry to symmetric key
6 mapping exists in the cache for the access control entry corresponding to the file.
7 If such a mapping exists in the cache, then the mapped-to symmetric key is
8 obtained from the cache, otherwise the encrypted symmetric key is decrypted
9 using the private key of the public/private key pair. The encrypted key cache itself
10 can also be encrypted and stored as an encrypted file.
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